



Atty. Dkt. No. 058832-0141

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant: Hiroyuki IWAMURA et al.

Title: THERAPEUTIC AGENT FOR NON-IMMEDIATE TYPE ALLERGIC DISEASES

Appl. No.: 10/734,577

Filing Date: 12/15/2003

Examiner: Unassigned

Art Unit: Unassigned

**INFORMATION DISCLOSURE STATEMENT**  
**UNDER 37 CFR §1.56**

Commissioner for Patents  
PO Box 1450  
Alexandria, Virginia 22313-1450

Sir:

Submitted herewith on Form PTO/SB/08 is a listing of documents known to Applicants in order to comply with Applicants' duty of disclosure pursuant to 37 CFR §1.56. A copy of each listed document, except as noted below, is being submitted to comply with the provisions of 37 CFR §1.97 and §1.98.

The USPTO has waived the requirement under 37 CFR 1.98(a)(2)(i) to submit copies of U.S. patents and U.S. patent application publications when citing and submitting an Information Disclosure Statements in a patent application filed after June 30, 2003 and in an international application that has entered the national stage under 37 USC §371 after June 30, 2003. Accordingly, copies of these types of documents are not being supplied in connection with this application. Reference is being made to Pre-OG Notice from Office of Patent Legal Administration dated July 25, 2003, *Information Disclosure Statements May Be Filed Without Copies of U.S. Patents and Published Applications in Patent Applications filed after June 30, 2003.*

The submission of any document herewith, which is not a statutory bar, is not intended as an admission that such document constitutes prior art against the claims of the present application or that such document is considered material to patentability as defined in 37 CFR §1.56(b). Applicants do not waive any rights to take any action which would be appropriate to antedate or otherwise remove as a competent reference any document which is determined to be a *prima facie* art reference against the claims of the present application.

**TIMING OF THE DISCLOSURE**

The listed documents are being submitted in compliance with 37 CFR §1.97(b), within three (3) months of the filing date of the application.

Applicants respectfully request that any listed document be considered by the Examiner and be made of record in the present application and that an initialed copy of Form PTO/SB/08 be returned in accordance with MPEP §609.

The Commissioner is hereby authorized to charge any additional fees which may be required regarding this application under 37 CFR §§ 1.16-1.17, or credit any overpayment, to Deposit Account No. 19-0741. Should no proper payment be enclosed herewith, as by a check being in the wrong amount, unsigned, post-dated, otherwise improper or informal or even entirely missing, the Commissioner is authorized to charge the unpaid amount to Deposit Account No. 19-0741.

Respectfully submitted,

Date Jan. 5, 2004

By Stephen B. Maebius

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Registration No. 35,264

10734577

01-05-04

MODIFIED PTO/SB/08 (08-00)

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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<p>Substitute for form 1449B/PTO</p> <p><b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b></p> <p><i>JAN 05 2004</i></p> <p>(use as many sheets as necessary)</p> <p>Sheet 1 of 7</p>				<b>Complete if Known</b>	
				Application Number	10/375,057
				Filing Date	02/28/2003
				First Named Inventor	Hiroyuki Iwamura
				Group Art Unit	Unassigned
				Examiner Name	Unassigned
				Attorney Docket Number	058832-0141

**U.S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <sup>2</sup> (if known)			
	A1	4,179,517		MECHOULAM et al.	12-18-1979	
	A2	5,013,837		WARD et al.	05-07-1991	
	A3	5,081,122	A	WARD	01-14-1992	
	A4	5,462,960	A	BARTH et al.	10-31-1995	
	A5	5,462,960	A	BARTH et al.	10-31-1995	
	A6	5,605,906	A	LAU	02-25-1997	
	A7	5,624,941	A	BARTH et al.	04-29-1997	
	A8	5,624,941	A	BARTH et al.	04-29-1997	
	A9	5,804,592	A	VOLICER	09-08-1998	
	A10	5,925,768	A	BARTH et al.	07-20-1999	
	A11	5,939,429	A	KUNOS et al.	08-17-1999	
	A12	6,013,648	A	RINALDI et al.	01-11-2000	
	A13	6,262,112	B1	MITTENDORF et al.	07-17-2001	
	A14	6,284,788	B1	MITTENDORF et al.	09-04-2001	

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document			Name of Patentee or Applicant of Cited Documents	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)				
✓	A15	DE	198 37 627		A1 BAYER AG	02-24-2000		
✓	A16	DE	198 37 638		A1 BAYER AG	02-24-2000		
✓	A17	DE	100 15 866		A1 BAYER AG	10-11-2001		

Examiner Signature	Date Considered
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup>See attached Kinds of U.S. Patent Documents. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document.

<sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, PO Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, PO Box 1450, Alexandria, Virginia 22313-1450.

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<b>Sheet</b> <b>TRADEMA</b>		<b>of</b> 7		<b>Application Number</b>	10/375,057		
				<b>Filing Date</b>	02/28/2003		
<b>First Named Inventor</b>		<b>Group Art Unit</b>		Hiroyuki Iwamura			
				<b>Examiner Name</b>		Unassigned	
						Unassigned	
<b>Attorney Docket Number</b>		<b>T</b>		058832-0141			

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<b>Examiner Initials*</b>	<b>Cite No.<sup>1</sup></b>	<b>Foreign Patent Document</b>			<b>Name of Patentee or Applicant of Cited Documents</b>	<b>Date of Publication of Cited Document MM-DD-YYYY</b>
		<b>Office<sup>3</sup></b>	<b>Number<sup>4</sup></b>	<b>Kind Code<sup>5</sup> (if known)</b>		
✓	A18	FR	2 709 912	A1	REGIE NATIONALE DES USINES RENAULT	03-17-1995
✓	A19	FR	2 789 078	A1	SANOFI	08-04-2000
✓	A20	FR	2 789 079	A1	SANOFI-SYNTHELABO	08-04-2000
✓	A21	FR	2 805 810	A1	AVENTIS PHARMA S.A.	09-07-2001
✓	A22	FR	2 805 817	A1	AVENTIS PHARMA S.A.	09-07-2001
	A23	WO	94/12466	A1	YISSUM RESEARCH DEVELOPMENT COMPANY OF THE HEBREW UNIVERSITY OF JERUSALEM	06-09-1994
✓	A24	WO	96/02248	A1	ELI LILLY AND COMPANY	02-01-1996
✓	A25	WO	96/18600	A1	LIFEGROUP S.P.A.	06-20-1996
✓	A26	WO	96/18391	A2	LIFEGROUP S.P.A.	06-20-1996
✓	A27	WO	96/20268	A1	RHONEPOULENC CHIMIE	07-04-1996
✓	A28	WO	96/25397	A1	MERCK FROSST CANADA INC.	08-22-1996
✓	A29	WO	97/00860	A1	SANOFI	01-09-1997
✓	A30	WO	97/19063	A1	SANOFI	05-29-1997
✓	A31	WO	97/21682	A1	SANOFI	06-19-1997
✓	A32	WO	97/29079	A1	JAPAN TOBACCO INC.	08-14-1997
✓	A33	WO	98/31227	A1	SMITHKLINE BEECHAM CORPORATION	07-23-1998
✓	A34	WO	98/32441	A1	SANOFI	07-30-1998

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<small>Sheet 3 of 7</small>		<b>Application Number</b>		10/375,057			
		<b>Filing Date</b>		02/28/2003			
<b>First Named Inventor</b>		Hiroyuki Iwamura					
<b>Group Art Unit</b>		Unassigned					
<b>Examiner Name</b>		Unassigned					
		<b>Attorney Docket Number</b>		058832-0141			

FOREIGN PATENT DOCUMENTS							
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document			Name of Patentee or Applicant of Cited Documents	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)			
✓	A35	WO	98/37061	A1	BAYER AKTIENGESELLSCHAFT	08-27-1998	
✓	A36	WO	98/41519	A1	SMITHKLINE BEECHAM CORPORATION	09-24-1998	
✓	A37	WO	99/02499	A1	JAPAN TOBACCO INC.	01-21-1999	
✓	A38	WO	99/24471	A1	THE RESEARCH FOUNDATION OF STATE UNIVERSITY OF NEW YORK	05-20-1999	
✓	A39	WO	99/26612	A1	SMITHKLINE BEECHAM CORPORATION	06-03-1999	
✓	A40	WO	99/51560	A1	YISSUM RESEARCH DEVELOPMENT COMPANY OF THE HEBREW UNIVERSITY OF JERUSALEM	10-14-1999	
✓	A41	WO	99/52524	A1	THE MATHILDA & TERENCE KENNEDY INSTITUTE OF RHEUMATOLOGY	10-21-1999	
✓	A42	WO	99/57106	A1	THE UNIVERSITY OF CONNECTICUT	11-11-1999	
✓	A43	WO	99/57107	A2	THE UNIVERSITY OF CONNECTICUT	11-11-1999	
✓	A44	WO	99/60987	A2	NEUROSCIENCES RESEARCH FOUNDATION, INC.	12-02-1999	
✓	A45	WO	00/10967	A1	BAYER AKTIENGESELLSCHAFT	03-02-2000	
✓	A46	WO	00/10968	A2	BAYER AKTIENGESELLSCHAFT	03-02-2000	

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Sheet	4	of	7	<b>Attorney Docket Number</b>		
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		Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)				
✓	A47	WO	00/15609	A1	AVENTIS PHARMA S.A.	03-23-2000		
✓	A48	WO	00/16756	A1	INNOVET ITALIA S.R.L.	03-30-2000		
✓	A49	WO	00/32200	A1	MAKRIYANNIS et al.	06-08-2000		
✓	A50	WO	00/40562	A1	JAPAN TOBACCO INC.	07-13-2000		
✓	A51	WO	00/46209	A1	SANOFI-SYNTHELABO et al.	08-10-2000		
✓	A52	WO	00/56303	A2	IMMUGEN PHARMACEUTICALS, INC.	09-28-2000		
✓	A53	WO	01/04083	A1	INNOVET ITALIA S.R.L.	01-18-2001		
✓	A54	WO	01/19807	A1	SHIONOGI & CO., LTD.	03-22-2001		
✓	A55	WO	01/24798	A1	SANOFI-SYNTHELABO	04-12-2001		
✓	A56	WO	01/28329	A1	UNIVERSITY OF CONNECTICUT	04-26-2001		
✓	A57	WO	01/28497	A2	UNIVERSITY OF CONNECTICUT	04-26-2001		
✓	A58	WO	01/28498	A2	UNIVERSITY OF CONNECTICUT	04-26-2001		
✓	A59	WO	01/28557	A1	UNIVERSITY OF CONNECTICUT	04-26-2001		
✓	A60	WO	01/28588	A1	UNIVERSITE DE MONTREAL	04-26-2001		
✓	A61	WO	01/29007	A1	UNIVERSITY OF CONNECTICUT	04-26-2001		

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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> <small>JAN 05 2004 (use as many sheets as necessary)</small>					<b>Application Number</b> 10/375,057 <b>Filing Date</b> 02/28/2003 <b>First Named Inventor</b> Hiroyuki Iwamura <b>Group Art Unit</b> Unassigned <b>Examiner Name</b> Unassigned <b>Attorney Docket Number</b> 058832-0141	
Sheet	5	of	7			

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Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document			Name of Patentee or Applicant of Cited Documents	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)			
/	A62	WO	01/32169	A1	YISSUM RESEARCH DEVELOPMENT COMPANY OF THE HEBREW UNIVERSITY OF JERUSALEM	05-10-2001	
/	A63	WO	01/32629	A1	SANOFI-SYNTHELABO	05-10-2001	
/	A64	WO	01/32663	A2	SANOFI-SYNTHELABO	05-10-2001	
/	A65	WO	01/58445	A1	UNIVERSIDAD COMPLUTENSE DE MADRID	08-16-2001	
/	A66	WO	01/58450	A2	SANOFI-SYNTHELABO	08-16-2001	
/	A67	WO	01/58869	A2	BRISTOL-MYERS SQUIBB COMPANY	08-16-2001	
/	A68	WO	01/64633	A1	AVENTIS PHARMA S.A.	09-07-2001	
/	A69	WO	01/64634	A1	AVENTIS PHARMA S.A.	09-07-2001	
/	A70	WO	01/64212	A1	UNIVERSITY COLLEGE LONDON	09-07-2001	
/	A71	WO	01/64632	A1	AVENTIS PHARMA S.A.	09-07-2001	
/	A72	WO	01/70700	A1	SOLVAY PHARMACEUTICALS B.V.	09-27-2001	
/	A73	WO	01/74763	A1	BAYER AKTIENGESELLSCHAFT	10-11-2001	
/	A74	WO	01/87297	A1	BURSTEIN et al.	11-22-2001	
/	A75	WO	01/89589	A1	THE REGENTS OF THE UNIVERSITY OF CALIFORNIA	11-29-2001	

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		Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)				
✓	A76	WO	01/95899	A2	YISSUM RESEARCH DEVELOPMENT COMPANY OF THE HEBREW UNIVERSITY OF JERUSALEM	12-20-2001		
✓	A77	WO	01/96330	A2	SCHERING CORPORATION	12-20-2001		
✓	A78	WO	01/98289	A1	PHARMOS CORPORATION	12-27-2001		
✓	A79	WO	02/10135	A1	ONO PHARMACEUTICAL CO.	02-07-2002		
✓	A80	WO	02/19383	A2	DEUTSCHE TELEKOM AG	03-07-2002		
✓	A81	WO	02/24630	A1	ELI LILLY AND COMPANY	03-28-2002		
✓	A82	WO	02/26702	A1	BAYER AKTIENGESELLSCHAFT	04-04-2002		
✓	A83	WO	02/28346	A2	AVENTIS PHARMA S.A.	04-11-2002		
✓	A84	WO	02/36590	A1	AMRAD OPERATIONS PTY LTD	05-10-2002		
✓	A85	WO	02/42248	A2	NOVARTIS AG	05-30-2002		
✓	A86	WO	02/42269	A1	SANOFI-SYNTHELABO	05-30-2002		
✓	A87	WO	02/47691	A1	AYOUB	06-20-2002		
✓	A88	WO	02/053543	A1	SHIONOGI & CO., LTD.	07-11-2002		
✓	A89	WO	02/058636	A2	UNIVERSITY OF CONNECTICUT	08-01-2002		
✓	A90	WO	02/060447	A1	UNIVERSITY OF CONNECTICUT	08-08-2002		
✓	A91	WO	02/062750	A1	SCHERING CORPORATION	08-15-2002		

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Application Number	10/375,057
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First Named Inventor	Hiroyuki Iwamura
Group Art Unit	Unassigned
Examiner Name	Unassigned

Attorney Docket Number 058832-0141

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document			Name of Patentee or Applicant of Cited Documents	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)				
—	A92	WO	02/065997	A1	UNILEVER PLC et al.	08-29-2002		
—	A93	WO	02/072562	A1	SHIONOGI & CO., LTD.	09-19-2002		
—	A94	WO	02/080903	A1	THE BOARD OF TRUSTEES OF THE UNIVERSITY OF ILLINOIS et al.	10-17-2002		
—	A95	WO	02/085866	A1	ASTRAZENECA AB	10-31-2002		

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>6</sup>
	A96	IWAMURA et al., "In Vitro and in Vivo Pharmacological Characterization of JTE-907, a Novel Selective Ligand for Cannabinoid CB <sub>2</sub> Receptor," <u>The Journal of Pharmacology and Experimental Therapeutics</u> , 2001, pp. 420-425, Vol. 296, No. 2, The American Society for Pharmacology and Experimental Therapeutics, USA	
	A97	NAGAI et al., "Immunoglobulin E production in mice by means of contact sensitization with a simple chemical, hapten," <u>J. Allergy Clin. Immunol.</u> , December 1997, pp. S39-S44, Vol. 100, No. 6, Part 2, Mosby-Year Book, Inc.	
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